

IN THE SPECIFICATION

Please replace the following paragraphs of the specification. Applicant includes herewith an Attachment for Specification Amendments showing a marked up version of each replacement paragraph. No new matter has been added.

Page 4, second paragraph:

FIG. 2 shows an embodiment of a lightweight antenna element structure 201 in accordance with the principles of the present invention. Referring to FIG. 2, antenna element 202 having illustrative radio frequency (RF) integrated circuit (IC) 203 is attached to outer surface 204. Antenna element 202 may be used, for example, to generate an RF signal in a phased array antenna. Such antennas and the electronics useful in those antennas are well known to one skilled in the art. Outer surface 204 is, for example, the top surface of an inflatable body having illustrative side walls 207 and bottom inner surface 205 (which is not visible in the view of FIG. 2). Inner surface 205 may be, for example, a metallized surface in order to serve as a ground plane for antenna element 202. Connecting tubes 206 function to connect outer surface 204 with inner surface 205 and to maintain a desired distance between those two surfaces, which is especially useful if inner surface 205 is used as a ground plane. Outer surface 204, inner surface 205, connecting tubes 206 and sides 207 are, illustratively, manufactured from a polyester film, such as a Mylar film, which is well known in the art. As is also well known, Mylar is a biaxially oriented, thermoplastic film made from ethylene glycol and dimethyl

terephthalate (DMT) and is characterized by advantageous mechanical properties such as a relatively constant stiffness, strength, toughness, moisture-resistance and dimensional stability over a wide range of temperatures. Because of these properties, Mylar is extremely resistant to puncturing and tearing and, therefore, is a useful illustrative material from which to manufacture an inflatable body. The antenna element of FIG. 2 is merely illustrative in nature and may, for example, be used in combination with a plurality of antenna elements to form an array of antenna elements.

Page 7, second paragraph:

FIG. 5 shows another embodiment 501 of a transmission line that is useful within an enclosure containing a pressurized fluid, such as the double-walled enclosure formed by using the inflatable structure 201 of FIG. 2 on a lighter than air vehicle. One skilled in the art will recognize that the transmission line of FIG. 5 may be advantageous, for example, for transmitting a signal between two electrical components on the lighter than air vehicle, such as between a signal transceiver and the aforementioned antenna elements that may be disposed on the surface of the vehicle.